ISO 12829:2023-11 (E)

Hydraulic spin-on filters with finite lives - Method for verifying the rated fatigue life and the rated static burst pressure of the pressure-containing envelope

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Samples 2

5 Cyclic endurance test to verify the rated fatigue life at a rated fatigue pressure 2
5.1 Apparatus 2
5.2 Test conditions 3
5.3 Test procedure 3
5.4 Failure criteria 4
5.5 Calculation of rated fatigue life at rated fatigue pressure 4
5.6 Verification 5

6 Burst test to verify the rated static burst pressure 5
6.1 Apparatus 5
6.2 Test conditions 5
6.3 Test procedure 5
6.4 Failure criteria 6
6.5 Calculation of rated static burst pressure 6
6.6 Verification 6

7 Presentation of data 6

8 Verification of rated fatigue life, rated fatigue pressure and rated static burst pressure by similarity 7

9 Similarity between filters under test and production components 7

10 Identification statement (reference to this document) 7

Annex A (informative) Results of the round robin test program conducted to verify the procedure specified in this document 8

Bibliography 10